Contents

Bartlett, B.O., *see* Shone, M.G.T., *et al.* 171
Benz, R., *see* Zimmerman, U. 33
Cereijido, M., Stefani, E., Martinez-Palomo, A.: Occluding Junctions in a Cultured Transporting Epithelium: Structural and Functional Heterogeneity 19
Chen, J.S., *see* Walser, M. 236
Colombini, M.: Pore Size and Properties of Channels from Mitochondria Isolated from *Neurospora crassa* 79
Comoglio, P.M., *see* Tarone, G., *et al.* 55
Dahl, G., Isenberg, G.: Decoupling of Heart Muscle Cells: Correlation with Increased Cytoplasmic Calcium Activity and with Changes of Nexus Ultrastructure 63
Davey, D.F., Dulhunty, A.F., Fatkin, D.: Glycerol Treatment in Mammalian Skeletal Muscle 223
Dulhunty, A.F., *see* Davey, D.F., *et al.* 223
Eastwood, A.B., *see* Sorenson, M.M., *et al.* 1
Epstein, J., *see* Silva, P., *et al.* 215
Essig, A.: Concentration-Dependence of Nonelectrolyte Permeability of Toad Bladder. (*Letter to the Editor*) 235
Fatkin, D., *see* Davey, D.F., *et al.* 223
Flood, A.V., *see* Shone, M.G.T., *et al.* 171
Harms, V., Wright, E.M.: Some Characteristics of Na/K-ATPase from Rat Intestinal Basal Lateral Membranes . 119
Horiuchi, K., *see* Saito, Y., *et al.* 85
Isenberg, G., *see* Dahl, G. 63
Itoi, K., *see* Saito, Y., *et al.* 85
Katz, G.M., *see* Sorenson, M.M., *et al.* 1
Leibo, S.P.: Water Permeability and Its Activation Energy of Fertilized and Unfertilized Mouse Ova 179
Lettau, J., *see* Macrobbie, E.A.C. 199
Macrobbie, E.A.C.: Osmotic Measurements on Stomatal Cells of *Commelina communis* L. 189
Macrobbie, E.A.C., Lettau, J.: Ion Content and Aperture in "Isolated" Guard Cells of *Commelina communis* L. . 199
Martinez-Palomo, A., *see* Cereijido, M. *et al.* 19
Munck, B.G.: Lysine Transport across the Small Intestine. Stimulating and Inhibitory Effects of Neutral Amino Acids 45
Ohmori, H.: Dual Effects of K Ions upon the Inactivation of the Anomalous Rectifier of the Tunicate Egg Cell Membrane 143
Orentlicher, M., *see* Sorenson, M.M., *et al.* 1
Prat, M., *see* Tarone, G., *et al.* 55
Rabon, E., Takeguchi, N., Sachs, G.: Water and Salt Permeability of Gastric Vesicles 109
Rosa, R., *see* Silva, P., *et al.* 215
Rueben, J.P., *see* Sorenson, M.M., *et al.* 1
Sachs, G., *see* Rabon, E., *et al.* 109
Saito, Y., Itoi, K., Horiuchi, K., Watanabe, T.: Mode of Action of Furosemide on the Chloride-Dependent Short-Circuit Current across the Ciliary Body Epithelium of Toad Eyes 85
Sanders, D.: The Mechanism of Cl^- Transport at the Plasma Membrane of *Chara corallina* I: Cotransport with H^+ . 129
Shean, G.M., *see* Sollner, K. 159
Shone, M.G.T., Bartlett, B.O., Flood, A.V.: A Model of Diffusion and Mass Flow of Water in Cylindrical Membrane Systems with Application to Plant Roots 171
Silva, P., Stoff, J.S., Solomon, R.J., Rosa, R., Stevens, A., Epstein, J.: Oxygen Cost of Chloride Transport in Perfused Rectal Gland of *Squalus acanthias* 215
Sollner, K., Shean, G.M.: Electrolyte Permeability and Electromotive Action of Mosaic Membranes Composed of Porous and Liquid Parts of High Ionic Selectivity for Ions of Opposite Signs 159
Solomon, R.J., *see* Silva, P., *et al.* 215
Sorenson, M.M., Rueben, J.P., Eastwood, A.B., Orentlicher, M., Katz, G.M.: Functional Heterogeneity of the Sarcoplasmic Reticulum within Sarcomeres of Skinned Muscle Fibers 1
Stefani, E., *see* Cereijido, M., *et al.* 19
Stevens, A., *see* Silva, P., *et al.* 215
Stoff, J.S., *see* Silva, P., *et al.* 215
Takeguchi, N., *see* Rabon, E., *et al.* 109
Tarone, G., Prat, M., Comoglio, P.M.: Identification and Partial Characterization of Five Major Membrane Glycoproteins of BHK Fibroblasts 55
Walser, M., Chen, J.S.: *Reply to:* Concentration-Dependence of Nonelectrolyte Permeability of Toad Bladder. (*Letter to the Editor*) 236
Warashina, A.: Further Studies on Absorption Changes Arising in Dye-Stained Nerves during Excitation 207
Watanabe, T., *see* Saito, Y., *et al.* 85
White, J.F.: Bicarbonate-Dependent Chloride Absorption in Small Intestine: Ion Fluxes and Intracellular Chloride Activities 95
Wright, E.M., *see* Harms, V. 119
Zimmerman, U., Benz, R.: Dependence of the Electrical Breakdown Voltage on the Charging Time in *Valonia utricularis* 33
Guest Referees 77
Instructions to Authors 237

Indexed in *Current Contents*